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This annual report deals with certain features and activities of schools of public health in the US and Canada. From questionnaires sent to directors of public health schools, information was obtained on the administrative organization of the schools, physical plant, library facilities, finances, admissions, course offerings, field training, and continuing education. Tables in the main body of the report contain figures showing changes from 1962 to 1968. Detailed data for the academic year 1967-68 are presented in the Appendices. In addition, data on faculty members and students were tabulated. The report is available for $1.00 from the American Public Health Association, Inc., 1740 Broadway, New York, New York 10019. (JS)

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AMERICAN PUBLIC HEALTH ASSOCIATION, INC.

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SCHOOLS OF PUBLIC HEALTH

in the

U.S.A. and CANADA

(Year Ending June 1968)

James L. Troupin, M.D.
Director of Professional Education

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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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I. INTRODUCTION

This annual report deals with certain features and activities of the Schools of Public Health of the United States and Canada, and considers discernible trends. The tables in the main body of the report consist of figures which show changes from year to year. Detailed data referable to the academic year 1967-68 are presented in the annexes.

This report is made possible only through the generous cooperation of the schools of public health. Each has filled out a questionnaire at the end of the academic year, in addition to supplying data on Faculty members and Students.

The general questionnaire asks for information on organization, physical facilities, library facilities, finances, admission of students, course offerings, field training, and continuation education. In addition, a list of all graduates receiving their diplomas during the current year (July 1, 1967 to June 30, 1968) is requested, and an "open end" question asks for comments on any points that seem important to the Dean.

Data on Faculty members are derived from a permanent roster - on individual IBM cards - in the A.P.H.A. headquarters. An annual listing is prepared from this roster (by subjects and titles) and each school is asked to make corrections on its list. The IBM cards are then modified accordingly and the tabulations made therefrom.

Student census cards are filed at the time of registration, usually in September. Each student fills out a card giving facts about sex, age, state or province or country, prior degrees, sponsorship, major subject, and professional category, and this information is then transferred to IBM cards in A.P.H.A. headquarters. When the graduation lists are received in the spring or summer, the cards are processed accordingly, and tabulations of graduates then made.

This year, for the first time, data are presented on seventeen schools, including two which were initially accredited in 1967.

II. ADMINISTRATION

The pattern of administrative position of schools of public health has not changed since last year. Of the seventeen schools in the United States and Canada, two are part of the respective medical school with the Director of Public Health responsible to the Dean of the Medical School. In the other instances, the Director of the School of Public Health is responsible to the President of the University or one of the other central administrators, such as Vice-President, Chancellor, Vice-Chancellor. Six of these fifteen schools are related administratively to other schools of the health professions under a co-ordinator of health affairs.

Each school is organized into a number of major administrative units (called departments or divisions) ranging from three to fifteen, with an average of 9.5 per school. The recent trend is shown in Table I.

Table I

Number of Major Organizational Units in Schools of Public Health

Year ending June	no. of major units	no. of schools	no. of major units per school
1962	115	14	8.2
1963	119	14	8.5
1964	117	14	8.4
1965	116	14	8.3
1966	132	15	8.8
1967	138	15	9.2
1968	162	17	9.5

The natural tendency is likely to be one of gradual increase in number as subordinate units are "promoted" to major status. An opposite action has recently been in evidence in some schools, namely the combining of several existing "departments" into a larger unit where the work of all could be better coordinated. A valuable benefit derived from this administrative tactic is the reduction of span of control of the Dean.

The number of administrative units, and the responsibilities assigned to each, must of necessity be determined by the institution itself. However, the matter of nomenclature is confusing as presently constituted. Examples of various names for similar fields of interest may be found in Annex I. Units are grouped together when their contents are judged to be comparable.

Another organizational feature relates to the existence of an academic council or executive committee, composed usually of heads of departments, which has as its function the formulation of advice to the Director in policy matters. The size and extent of authority of such a group vary widely among the schools of public health. In addition, schools have special function committees - with variable composition. Among these are: Admissions; Curriculum; Library; Student Welfare, etc.

III. PHYSICAL PLANT

Building programs in schools of public health have continued to provide for increased space. In four schools this represents the acquisition of a new building, to be occupied by the school of public health alone or in partnership. Ten schools already occupy their own buildings, five others are located in premises which are assigned by (and shared with) the medical school, while the remaining two share a building with another part of the University or outside agency.

A summary of the number of square feet of space in the schools of public health over recent years is shown in Table II. The "average" has increased slightly even though two new (and as yet small) schools have been added. It should be noted that seven schools have 50,000 sq.ft. or less, while five schools have over 100,000 sq.ft. each. The other five occupy an intermediate position.

Eleven of the schools report the existence of a reading room or library for use of the students, including one school that maintains departmental libraries. The number of volumes and periodicals is given in Table III. In addition, fifteen schools of public health are located on the same campus as the medical library, reporting an average of 175,000 volumes and 2,400 periodicals. The general university library, with an average of almost 2 million volumes and 20,000 periodicals, is within easy access in thirteen instances.

Table II

Physical Facilities available in Schools of Public Health

year ending June	total space (in square feet)	number of schools	average per school
1962	789,000	14	56,350
1963	966,000	14	69,000
1964	1,071,000	14	76,500
1965	1,192,000	14	85,100
1966	1,218,000	15	81,200
1967	1,197,000	15	79,800
1968	1,474,513	17	86,700

Table III

Libraries and Reading Rooms in Schools of Public Health

year ending June	no. of schools	no. of volumes	average number per school	number of periodicals	average no. per school
1962	9	90,300	10,000	2,742	300
1963	9	103,100	11,500	2,968	325
1964	8	93,150	11,600	2,844	350
1965	8	101,000	12,600	2,845	350
1966	10	131,500	13,150	3,750	375
1967	10	130,642	13,050	3,943	395
1968	11	130,700	12,000	3,687	335

IV. FINANCES

The presentation of information on finances has not been completely satisfactory because of a lack of uniformity among educational institutions in their accounting practices. In previous years, an attempt was made to list sources of funds (income) and, separately, to record expenditures. The fact that the several rubrics were expressed in general terms made it relatively easy for schools to provide the information, but at the same time raised questions about the significance of the figures once they were assembled. Also, the fact that final figures for the year ending on June 30 might not be ready in some universities until six or more months later further contributed to the instability of the data.

A committee of the Association of Schools of Public Health proposed a format which, it is claimed, has more meaning for the schools, and (in the case of the U.S.A. schools) for members of Congress and State Legislatures and others in a position to influence financial support to professional education. The Annual Questionnaire included this proposed format, though it does not, in the accounting sense, represent a financial statement. Instead, it deals only with income items. The difficult question of how to present financial data has not been finally settled, and shall continue to be studied in future years.

In order to achieve a certain stability, figures are presented for the preceding year. For example, in this report, which in all other aspects pertains to the academic year 1967-68, the financial data refer to 1966-67.

In Table IV, a summary is presented for the five most recent years, and in Annex II, details for the "current" year (1966-67) are given. The influence of the two new schools may be discerned in the slight drop in "average" income over that of the previous year.

Table IV

Annual Income of Schools of Public Health

Year Ending June	Number of Schools	Total Income	Average Income per School
1963	14	$36,127,718	$2,581,000
1964	14	41,160,066	2,940,000
1965	15	49,279,362	3,285,000
1966	15	56,989,830	3,800,000
1967	17	63,111,078	3,712,000

V. FACULTY

The data presented for teaching personnel are based upon a definition adopted by the Association of Schools of Public Health, as follows: "Faculty members shall be determined (a) by counting the number of professors, associate professors, and assistant professors who serve full-time in the school of public health and (b) by adding thereto the number of other persons holding academic appointments stated in terms of full-time equivalents as computed on the basis of the approximate proportion of time spent in instruction and related activities specifically for the graduate students enrolled in the school of public health."

Table V gives the number of Faculty and staff members, expressed as full-time equivalents for the most recent four years, in accordance with this definition, but for previous years as a gross count. These figures do not represent the true teaching potentialities of the schools, since there are included many staff members (at all ranks) who are employed on a short term basis on grant supported funds. Another possible source of mis-information may be in the numbers of doctoral degree candidates who are also employed on the staff and who are included in these figures. Table VI shows the numbers of Faculty and Staff members by Subject Taught, over the past four years.

Table V

Faculty and Staff Members in Schools of Public Health

Year ending June	Full-Time Faculty	Full-Time Staff	Part-Time; employed in University	Part-Time; employed outside University	Emeritus	Total
1962	785	-	258	594	11	1648
1963	839	-	263	599	35	1736
1964	882	-	268	658	49	1857
1965	603	313	60.3	91.1	(52)*	1067.4
1966	663	354	64.6	100.8	(58)*	1182.4
1967	735	420	74.1	112.0	(63)*	1341.1
1968	843	404	86.2	133.1	(69)*	1466.3

* Emeritus not included in the Total.

Detailed figures for 1967-68 are given in Annexes III to VIII, inclusive, wherein analyses by age, sex, professional category, subject taught, title, and full-time/part-time status are presented.

Table VI

Subjects Taught by Faculty Members in Schools of Public Health
(expressed in terms of full-time equivalents)

	Year ending June			
	1965	1966	1967	1968
Administration or Practice of Public Health	78.7	91.4	103.5	106.1
Behavioral and Social Sciences	29.0	41.8	38.6	40.7
Biostatistics	100.9	102.5	101.9	120.5
Chronic Diseases	18.7	24.8	23.5	32.1
Dental Public Health	7.0	9.9	12.2	11.7
Environmental Health	80.6	87.4	87.4	94.9
Epidemiology	110.3	142.6	150.9	161.2
Health Education	41.2	47.0	52.6	50.2
International Health	18.8	27.0	31.1	31.4
Maternal and Child Health	66.4	58.0	59.9	70.1
Medical Care & Hosp. Adm.	97.9	110.1	158.1	166.4
Mental Health	34.6	37.6	37.0	40.3
Microbiology & Laboratory Public Health	48.6	50.0	51.1	48.7
Nutrition, Biochemistry	64.5	65.9	79.2	86.1
Occupational Health	50.4	44.2	55.2	52.5
Physiological Hygiene	32.7	35.2	38.4	43.2
Population Studies, Demog.	-	21.0	49.8	76.8
Public Health Nursing	41.8	38.3	41.0	42.9
Radiological Science	36.2	33.3	41.9	52.6
Social Work in Public Health	6.3	7.4	5.7	6.3
Trop.Med., Entomol., Parasit.	77.2	70.5	83.1	87.9
Other Subjects	25.6	36.5	39.0	43.7
TOTAL	1067.4	1182.4	1341.1	1466.3

VI. CURRICULUM

In most of the schools, there were slight changes in the requirements for the several degrees offered. In a few schools, courses are listed in groups, thus permitting a student to choose group, as well as individual, course electives. Several schools state that the requirements for M.S. degrees are the "same as for the M.P.H.", but do not indicate why such "identical" degrees are maintained. Until this is clarified, all of public health will be affected by this seeming paradox in its educational institutions.

The question of multiplicity of degrees continues to pose a problem. As shown in Annex XI, 29 degrees and diplomas are listed as having been awarded by the schools of public health, an increase from the count of 27 last year. Twenty-one of these were awarded by only one institution in each case, while another diploma was given by two institutions. Only seven degrees may thus be considered "universal" enough to have been awarded by three or more schools of public health. Continued efforts must be maintained to: (a) eliminate at least half of the present degrees and diplomas; and (b) to make more meaningful those which are retained.

This year's changes in course offerings are summarized in Annex IX, which shows the numbers of courses added and dropped in each subject area category. Table VII gives the totals for recent years.

Table VII

Year ending June	no. of courses added	no. of courses dropped
1962	163	52
1963	87	22
1964	101	57
1965	117	65
1966	139	60
1967	198	69
1968	258	81

VII. STUDENTS

A total of 2817 graduate students was reported as registered in the seventeen schools of public health in the year 1967-68. A small number were registered primarily in another part of the University and followed part of their studies in the school of public health. Furthermore, while some students were entered in a one-year curriculum, others, particularly those in doctoral programs, were there for two or more years, so that figures presented on the basis of registration would not be meaningful. Instead all the ensuing data refer to the 1376 students who received graduate degrees between July 1, 1967 and June 30, 1968.

The numbers and percentages for all professional categories are given in Table X for recent years. It will be noted that the number of applications for admission has been increasing, but the proportion accepted has decreased. The figures applicable to the several professional categories are shown in Annex X.

Table X

Applications and Acceptances for all Professional Categories

Year ending June	No. of schools	Number applied	Number accepted	Percent accepted	Number admitted
1962	12	2274	1465	64.4	-
1963	12	2376	1545	65.0	-
1964	13	2884	1827	63.4	-
1965	14	3591	2194	61.1	-
1966	15	4026	2543	63.2	1797
1967	15	4109	2371	57.7	1802
1968	17	4709	2682	57.0	1947

Among factors limiting admissions, that which referred to a relative scarcity of well-qualified candidates was mentioned most frequently. Another important factor was lack of financial assistance for some promising candidates. Limitations of space, thus forcing some schools of public health to impose quotas on admissions, was prominent this year as in previous years. Other points referred to language ability (for overseas students), age of applicants, etc.

The schools of public health awarded a variety of graduate degrees, as shown in Annex XI. The comparability of these designations, one with another, is impossible to work out, and a complete reform of the degree structure is indicated. A simple, but meaningful, system would feature two degrees at the Master's level and two degrees at the Doctor's level (one technical or scientific and the other general or administrative at each level).

In Table XI, figures are summarized for recent years, with the degrees grouped into some kind of equivalences. The total number has increased appreciably in this period of time. (Note: The figures for 1967 have been modified in accordance with information received subsequent to publication last year.)

Table XI--Schools of Public Health--

Graduate Degrees Awarded in Recent Years

Year ending June	M.P.H. D.P.H.	M.S.P.H. M.S.Hyg.	M.H.A. D.H.A.	Other Master's	Dr. P.H.	Sc.D.	Ph.D.	Total Grad. Degrees
1962	562	135	47	28	14	10	6	802
1963	592	157	47	25	12	14	4	851
1964	640	181	67	48	22	23	17	998
1965	766	194	70	57	18	19	18	1142
1966	790	201	79	57	32	23	26	1208
1967	799	210	72	78	33	22	20	1234
1968	919	193	105	67	30	23	39	1376

Annex XII gives the geographical distribution of graduates by professional category, and Table XII summarizes the figures for recent years. The percentages of graduates from North America have risen, while those from other countries show a decline, perhaps a reflection of an increase in the number of schools of public health in other countries.

Table XII--Schools of Public Health--

Graduates from U.S.A., Canada, and other countries, for recent years

	U.S.A.		Canada		Other Countries		Total
Year ending June	no.	%	no.	%	no.	%	no.
1962	559	(69.7)	70	(8.7)	173	(21.6)	802
1963	584	(68.6)	58	(6.8)	209	(24.6)	851
1964	698	(70.0)	90	(9.0)	210	(21.0)	998
1965	801	(70.1)	106	(9.3)	235	(20.6)	1142
1966	859	(71.1)	90	(7.5)	259	(21.4)	1208
1967	910	(73.7)	95	(7.7)	229	(18.6)	1234
1968	1077	(78.3)	80	(5.8)	219	(15.9)	1376

Annex XIII gives the age and sex of graduates by degree granted. The degrees are grouped as in Table XI. The proportion of women has increased over that of last year (35.1% as against the former 32.0%). The median age for men is about 32 years, approximately unchanged from last year. For women it is also about 32 years (a slight decrease from 33, last year).

Annex XIV presents the graduates by major subject and degrees awarded.

The sponsoring agency and professional categories of graduates are shown in Annex XV. As in previous years, more graduates in public health received their support through the Public Health Service traineeships than through any of the other sources of sponsorship.

Annex XVI gives the professional categories of graduates by major subject.

VIII. CONTINUATION EDUCATION

Schools of public health have generally considered that continuation education falls within the scope of their responsibilities, and a number of these short courses are reported for the year 1967-68. A total of 144 such courses is reported by the schools, with a student participation of over 7,000 individuals. The latter ranged from health officers and practicing physicians to operators of nursing homes, and included nurses, sanitarians, and practically all the other categories of workers in the health and related professions.

The duration of each course (in clock hours) was also reported, and when added together, a total of 6685 hours is attained. In Annex XVII, the courses are grouped under broad subject areas, and figures are presented in each category. This compilation deals with: number of courses; total number of participants; total number of clock hours; and total number of participant-hours.

IX. SUMMARY AND COMMENTS

In response to an "open end" question, the Directors of the schools presented brief statements regarding outstanding needs and future plans. Those responses which are of general interest are summarized here, under the same headings as the material in the body of this report.

Physical Plant

Shortages of adequate space in which to conduct a high quality program continue to plague the schools of public health. In several instances, construction of new premises has begun, but is delayed because of rising costs. In others, obtaining funds and approval for additional space has proved most difficult. Planning, in some schools, has begun for the period beginning five or more years hence.

Finances

An outstanding feature of the financial structure of schools of public health has been their increasing dependence on the availability of Federal funds (true, to varying extents, in both U.S.A. and Canada). Several factors now threaten to affect the amount of support which the schools may expect in the near future: (a) decreases in appropriations, whereas increases, particularly in Hill-Rhodes formula funds, are urgently needed; (b) the addition of newly accredited schools imposes a revised partition of funds wherein each school receives less; (c) inequities in the formula for allocation of Title I stipends, which in turn influences the Hill-Rhodes allotment.

Faculty

Most of the schools mention that they are committed to an increase in size of Faculty and staff, and that considerable recruitment activity is under way. Availability of funds is an inhibiting factor which a number of schools have emphasized.

Curriculum

The trend towards combining a number of courses into a "core" continues. Those schools who have conducted this "as an experiment" claim that it has proved successful.

Another trend has been to increase the number of credits required for the M.P.H. degree (in some instances, to expand the length of time of academic residence) while reducing the number of required courses. It is claimed this provides the student with greater opportunity for "specialization."

Students

In spite of increased enrollment, the schools continue to mention the inadequacy of funds available for scholarship support. It is said that a number of "qualified candidates were turned away" for this reason.

Continuation Education

Several schools have mentioned that they are planning to expand their efforts in this field.

ANNEX I--Major Organizational Units in Schools of Public Health

Administration (2); Administration of P.H.; Community Health; Community Health Services; Comprehensive Health Planning; Health Administration; Health Services; Health Services Administration (4); P.H. Administration (5); P.H. Practice (4)	21
Environmental; Environmental Health (8); Environmental Health Sciences; Environmental Hygiene; Environmental Sanitation; Environmental Sciences and Engineering; P.H. Engineering; Sanitary Engineering	15
Biometry (2); Biostatistics (12)	14
Epidemiology	14
Nutrition (6); Nutritional Sciences; P.H. Nutrition (2)	9
Health Education (4); P.H. Education (4)	8
Parasitology (4); Pathobiology; Tropical Medicine; Tropical P.H.	7
Family Health and Population Dynamics; Population and Family Health; Population and Family Planning Studies; Population Planning; Population Studies; Population Unit	6
Maternal and Child Health	6
Community and Social Psychiatry; Mental Health (2); Mental Hygiene; Mental Retardation	5
Laboratory Practice; Microbiology (3); P.H. Laboratory	5
Behavioral Sciences (3); Social Sciences	4
Environmental Medicine; Physiological Hygiene (2); Physiology	4
Hospital Administration	4
Industrial Health; Industrial Hygiene; Occupational Health; Occupational Hygiene	4
Nursing; Public Health Nursing (3)	4
Medical Care; Medical Care Administration; Medical Care Organization	3
Biochemistry and Nutrition; Nutrition and Biochemistry	2
Biostatistics and Epidemiology; Epidemiology and Biometrics	2
Chronic Diseases	2
Continuation Education; Continued Education	2
Individual and Community Health; Personal Health	2
International Health	2
Radiological Health; Radiological Sciences	2
Others: (Biochemistry; Demography; Demography and Human Ecology; Epidemiology and Microbiology; Health Development; Health Instruction Media; Human Ecology; Infectious and Tropical Diseases; Library; Medical Care and Hospital; Medical Records; Physical Education; Preventive Medicine and P.H.; P.H. and Medical Administration; Tropical Medicine and International Health)	15
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ANNEX II

Financial Statement - 1966-67

A.	Basic Institutional Support -		$12,749,602.
	1. Allocated by University	$ 6,893,743.	
	2. Endowments to School of P.H.	2,270,301.	
	3. Tuition and fees	829,256.	
	4. Indirect contribution (maintenance, etc.)	2,756,302.	
B.	Teaching and Training Grants and Contracts* -		13,737,357.
	1. Formula Grants	$ 3,654,848.	
	2. Others from National Government	9,475,010.	
	3. From other sources	607,499.	
C.	Research Grants and Contracts -		27,661,132.
	1. From National Government	$22,055,812.	
	2. From other sources	5,605,320.	
D.	Other Grants and Contracts -		2,197,118.
	1. From National Government	$ 1,823,354.	
	2. From other sources	373,764.	
E.	Traineeships and Fellowships -		6,176,527.
	1. From National Government	$ 5,995,927.	
	2. From other sources	180,600.	
F.	Other budgetary items		589,342.
			$63,111,078.

* not including Traineeships and Fellowships

ANNEX III--Schools of Public Health--Faculty and Staff Members by Full-time; Part-time Status and Subject Taught

Subject	Full-Time Faculty*	Full-Time Staff*	Part-Time** Employed in University	Part-Time** Employed Outside University	Emeritus***	Total
Administration or Practice Of Public Health	56	25	6.1	19.0	(7)	106.1
Aviation Medicine	1	-	-	0.4	-	1.4
Behavioral & Soc. Sciences	29	8	2.7	1.0	-	40.7
Biostatistics	92	17	5.3	6.2	(2)	120.5
Chronic Diseases	19	9	0.3	3.8	(1)	32.1
Dental Public Health	4	1	3.0	3.7	(4)	11.7
Environmental Health	58	20	5.7	11.2	(8)	94.9
Epidemiology	93	51	10.3	6.9	(6)	161.2
Health Education	36	7	2.1	5.1	(6)	50.2
International Health	17	11	0.9	2.5	(1)	31.4
Maternal & Child Health	39	19	5.2	6.9	(5)	70.1
Medical Care & Hosp. Adm.	76	56	5.1	29.3	(8)	166.4
Mental Health	20	5	7.3	8.0	-	40.3
Microbiology & Lab. P.H.	28	13	4.8	2.9	(7)	48.7
Nutrition, Biochemistry	52	26	3.9	4.2	(1)	86.1
Occupational Health	31	12	4.3	5.2	(4)	52.5
Physiological Hygiene	28	10	2.5	2.7	-	43.2
Population Studies, Demog.	44	29	1.5	2.3	-	76.8
Public Health Nursing	21	17	1.2	3.7	(4)	42.9
Radiological Science	28	16	6.8	1.8	-	52.6
Rehabilitation, Phys. Ther.	1	1	0.5	0.8	-	3.3
Social Work In P.H.	2	3	0.9	0.4	(1)	6.3
Trop. Med., Entomol., Parasit.	55	26	3.9	3.0	(4)	87.9
Veterinary Public Health	1	-	0.4	0.3	-	1.7
Other Subjects	12	22	1.5	1.8	-	37.3
TOTAL	843	404	86.2	133.1	(69)	1466.3

* According to definition on page 5.
** Expressed in terms of full-time equivalents.
*** Emeritus not counted in total.

ANNEX IV--Schools of Public Health--Full-time faculty and staff members
By title, age, and sex

Male

Age	Professors	Associate Professors	Assistant Professors	Lecturers' Instructors	Others	Total
Not stated	-	2	-	-	-	2
Under 30	-	-	11	13	20	44
30-34	1	15	53	25	27	121
35-39	12	41	71	16	33	173
40-44	32	64	43	9	25	173
45-49	55	45	25	8	14	147
50-54	54	19	2	8	9	92
55-59	59	12	2	2	4	79
60 and Over	59	2	3	4	4	72
TOTAL: Male	272	200	210	85	136	903

Female

Under 30	-	-	3	22	16	41
30-34	-	1	5	11	19	36
35-39	-	1	17	10	10	38
40-44	1	10	20	11	18	60
45-49	1	13	14	10	21	59
50-54	4	14	12	3	10	43
55-59	8	12	8	6	8	42
60 and over	9	5	3	2	6	25
TOTAL: Female	23	56	82	75	108	344
TOTAL Both Sexes	295	256	292	160	244	1247

ANNEX V--Schools of Public Health--Age of Full-time Faculty and Staff Members By Subject Taught

Subject	Age not Stated	Under 30	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 and Over	Total
Administration or Practice of Public Health	-	2	12	8	14	19	6	11	9	81
Aviation Medicine	-	-	-	-	-	-	-	-	1	1
Behavioral Sciences	-	2	4	6	12	12	-	1	-	37
Biostatistics	1	9	18	17	24	12	10	14	4	109
Chronic Diseases	-	2	5	5	7	5	3	1	-	28
Dental Public Health	-	-	1	-	-	2	-	-	2	5
Environmental Health	1	1	13	9	17	11	13	8	5	78
Epidemiology	-	1	14	36	29	23	15	15	11	144
Health Education	-	-	2	3	14	6	8	8	2	43
International Health	-	-	3	5	8	6	3	1	2	28
Maternal & Child Health	-	2	5	10	9	15	9	6	2	58
Medical Care & Hosp. Admin.	-	15	12	24	15	28	18	7	13	132
Mental Health	-	-	2	2	4	3	4	5	5	25
Microbiology	-	4	5	8	6	5	5	6	2	41
Nutrition	-	9	11	12	11	10	7	9	9	78
Occupational Health	-	3	7	5	4	6	5	7	6	43
Physiological Hygiene	-	3	2	7	8	4	2	8	4	38
Population Studies, Demography	-	12	13	10	12	11	7	3	5	73
Public Health Nursing	-	1	2	5	3	9	9	6	3	38
Radiological Science	-	3	13	11	10	4	3	-	-	44
Rehabilitation, Physical Therapy	-	-	-	1	1	-	-	-	-	2
Social Work in Public Health	-	-	-	-	2	2	1	-	-	5
Tropical Medicine	-	2	6	23	18	12	6	4	10	81
Veterinary Pub. Health	-	-	-	-	1	-	-	-	-	1
Other	=	14	7	4	4	1	1	1	2	34
TOTAL	2	85	157	211	233	206	135	121	97	1247

ANNEX VI--Schools of Public Health--Full-time Faculty and Staff Members By Title and Subject Taught

	Professors	Associate Professors	Assistant Professors	Lecturers; Instructors	Others	Total
Admin. or Prac. of P.H.	28	10	18	11	14	81
Aviation Medicine	1	-	-	-	-	1
Behavioral & Soc. Sciences	6	10	13	3	5	37
Biostatistics	33	31	28	11	6	109
Chronic Diseases	7	8	4	5	4	28
Dental Public Health	3	1	-	1	-	5
Environmental Health	21	23	14	15	5	78
Epidemiology	36	22	35	7	44	144
Health Education	9	12	15	6	1	43
International Health	6	8	3	3	8	28
Maternal & Child Health	12	12	15	8	11	58
Medical Care & Hosp. Admin.	28	23	25	14	42	132
Mental Health	7	9	4	1	4	25
Microbiology & Lab. P.H.	8	10	10	8	5	41
Nutrition, Biochemistry	20	14	18	8	18	78
Occupational Health	13	6	12	3	9	43
Physiological Hygiene	11	8	9	4	6	38
Population Studies, Demog.	15	14	15	7	22	73
Public Health Nursing	3	6	12	13	4	38
Radiological Science	5	7	16	8	8	44
Rehabilitation, Phys. Ther.	-	1	-	1	-	2
Social Work in P.H.	-	1	1	1	2	5
Tropical Medicine, Entomology, Parasitology	19	18	18	4	22	81
Veterinary Public Health	-	1	-	-	-	1
Other Subjects	4	1	7	18	4	34
TOTAL	295	256	292	160	244	1247

ANNEX VII--Schools of Public Health--Full-time Faculty and Staff Members
By Title and Professional Category

Professional Category	Professors	Associate Professors	Assistant Professors	Lecturers; Instructors	Others	Total
Physicians	148	67	81	14	34	344
Mathematicians; Statisticians	34	30	30	12	27	133
Anthropologists; Psych; Sociol.	13	32	27	8	34	114
Bacteriologists	9	19	23	15	24	90
Educators; Health Educators	8	16	24	21	9	78
Chemists; Biochemists	17	19	13	7	20	76
Nurses	4	13	19	23	11	70
Engineers	18	11	14	11	5	59
Biologists	12	13	10	7	12	54
Administrators; Hosp. Admin.	8	8	15	9	14	54
Dietitians; Nutritionists	3	5	6	7	5	26
Social Workers	1	3	4	5	12	25
Physiologists	5	3	6	3	2	19
Economists	2	2	5	1	9	19
Sanitarians	2	5	2	5	1	15
Physicists	2	3	5	1	1	12
Veterinarians	2	2	2	1	2	9
Dentists	3	1	2	-	3	9
Lawyers	3	-	1	2	-	6
Medical Record Librarians	-	-	-	2	3	5
Industrial Hygienists	1	-	1	1	1	4
Pharmacists	-	-	-	1	1	2
Accountants	-	-	-	1	1	2
Physical Therapists	-	1	-	1	-	2
Others*	-	3	2	2	13	20
TOTAL	295	256	242	160	244	1247

others includes: not stated-16; architect-1; dental hygienist-1; historian-1; journalist-1

ANNEX VIII--Schools of Public Health--Full-time Faculty and Staff
By Subject Taught and Professional Category

Professional Category	Adminis. Pub. Health	Behavioral Science	Biostatistics	Chronic Diseases	Environmental Health	Epidemiology	Health Education	International Health	M.C.H.	Med. Care & Hosp. Adm.	Mental Health	Microbiology	Nutrition	Occupational Health	Physiological Hygiene	Population Studies;Dem.	Public Health Nursing	Radiological Science	Trop. Med. Entomology; Parasitology	Other Subjects	Total
Physicians	41	2	7	15	2	73	3	21	27	31	10	10	13	16	13	22	-	10	23	5	344
Mathematicians; Statisticians	1	-	98	2	-	12	-	2	1	5	-	-	-	-	1	10	-	-	1	-	133
Anthropologists; Psychol.; Sociol.	6	35	1	6	-	2	1	1	10	20	8	-	1	-	1	22	-	-	-	-	114
Bacteriologists	-	-	-	-	6	24	-	1	-	-	-	28	1	1	-	-	-	2	27	-	90
Educators; H. Educ.	4	-	-	-	1	-	39	-	1	6	-	-	-	1	2	3	-	-	-	21	78
Chemists; Biochem.	-	-	-	-	9	5	-	-	-	-	-	-	36	8	4	1	-	11	2	-	76
Nurses	3	-	-	1	-	4	-	1	10	4	5	-	-	-	-	4	38	-	-	-	70
Engineers	3	-	-	-	37	-	-	-	-	3	-	-	-	11	2	-	-	3	-	-	59
Biologists	-	-	1	1	6	6	-	1	-	-	1	-	-	-	2	2	-	7	27	-	54
Admin; Hosp. Adm.	13	-	-	1	-	4	-	-	1	34	-	-	-	-	-	1	-	-	-	-	54
Dietitians; Nutritionists	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-	26
Social Workers	1	-	-	1	-	-	-	1	8	6	1	-	-	-	-	1	-	-	-	6	25
Physiologists	-	-	-	-	-	1	-	-	-	-	-	-	1	2	12	2	-	-	-	1	19
Economists	1	-	1	-	-	-	-	-	-	14	-	-	-	-	-	3	-	-	-	-	19
Sanitarians	1	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	15
Physicists	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	10	-	1	12
Veterinarians	-	-	-	-	1	4	-	-	-	-	-	2	-	-	-	-	-	-	1	1	9
Dentists	2	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	4	9
Lawyers	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	3	6
Medical Rec. Libr.	1	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	5
Industrial Hyg.	1	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	4
Pharmacists	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2
Accountants	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Physical Therapists	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
Others*	2	-	-	1	1	8	-	-	-	3	-	-	-	1	1	1	-	-	-	2	20
TOTAL	81	37	109	28	78	144	43	28	58	132	25	41	78	43	38	73	38	44	81	48	1247

Others includes: not stated-16; architect-1; dental hygienist-1; historian-1; journalist-1

ANNEX IX--Schools of Public Health--Courses Added and Dropped In 1967-68 (and in 1966-67)

	No. of Courses Added		No. of Courses Dropped	
	This Year	Last Year	This Year	Last Year
Admin. & Pract., P. H.	20	18	4	7
Behavioral Sciences	7	9	1	1
Biostatistics	36	33	7	11
Chronic Diseases	5	1	6	1
Dental Public Health	2	3	-	-
Environmental Health	14	11	9	6
Epidemiology	15	9	7	5
Health Education	25	4	1	2
International Health	3	-	-	1
M. C. H.	5	6	2	1
Med. Care & Hosp. Adm.	27	16	9	4
Mental Health	16	17	8	1
Microbiology	3	8	3	1
Nutrition; Biochemistry	20	8	13	9
Occupational Health	2	4	-	1
Physiological Hygiene	12	3	-	-
Population Studies	14	21	1	1
Public Health Nursing	6	1	7	5
Radiological Science	7	9	1	4
Rehab. & Physical Therapy	3	1	-	-
Social Work in P. H.	-	1	-	1
Tropical Med.; Parasitol.	4	4	-	3
Other Subjects (including inter-departmental courses)	12	11	2	4
TOTAL	258	198	81	69

ANNEX X--Schools of Public Health -- 1967-68
Applications, Acceptances, Admissions - By Professional Categories

Professional Category	Number Applied	Number Accepted	Percent Accepted	Percent Accepted Last Year	Number Admitted This Year
Social Workers	27	23	85.2	69.0	20
Physicians	889	673	75.7	79.1	488
Physicists	40	30	75.0	-	24
Mathematicians; Statisticians	163	119	73.0	75.9	97
Chemists; Biochemists	92	67	72.8	40.3	40
Physical Therapists	19	13	68.4	-	9
Engineers	142	97	68.3	69.1	65
Veterinarians	52	35	67.3	67.1	24
Nurses	412	274	66.5	61.2	217
Dietitians; Nutritionists	129	85	65.9	67.2	69
Biologists	17	11	64.7	67.7	8
Economists	19	12	63.2	-	12
Dentists	187	109	58.3	68.4	68
Bacteriologists; Laboratory Scientists	127	68	53.5	59.3	60
Educators; Health Educators	391	200	51.2	59.9	159
Pharmacists	37	18	48.6	55.6	16
Sanitarians	331	147	44.4	54.7	118
Administrators; Hospital Administrators	900	323	35.9	29.6	224
Others	735	378	51.4	58.5	229
TOTAL	4709	2682	57.0	57.7	1947

ANNEX XI -- Schools of Public Health -- Degrees Awarded During the Year Ending June 30, 1968

Degree	North Carolina	Michigan	California	U.C.L.A.	Johns Hopkins	Minnesota	Columbia	Harvard	Puerto Rico	Pittsburgh	Toronto	Tulane	Yale	Hawaii	Montreal	Loma Linda	Oklahoma	Total
M.P.H.	113	164	117	98	84	38	40	56	14	25	-	27	43	25	-	10	-	854
M.S. Hyg.	-	-	-	-	-	-	-	28	-	35	-	13	-	-	2	-	-	78
M.S.	4	-	3	14	4	25	-	-	-	2	-	-	-	3	-	7	4	66
M.H.A.	-	4	-	-	-	33	-	-	-	-	-	-	-	-	7	-	-	44
Ph.D.	10	-	1	4	7	7	-	-	-	3	-	-	1	-	-	-	6	39
M.S.P.H.*	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
D.P.H.	-	-	-	-	-	-	-	-	-	-	18	-	-	-	12	-	-	30
Dr. P.H.	4	3	3	6	7	-	1	3	-	2	-	1	-	-	-	-	-	30
M.P.H.Ed.*	-	-	-	-	-	-	-	-	29	-	-	-	-	-	-	-	-	29
M.S.(Adm.Med.)*	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	20
M.S.(Nutr.)*	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-	17
M.S.(Hosp.Adm.)*	-	-	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	16
M.H.S.A.*	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	15
Dip. Bact.*	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	14
Dr. Sc. Hyg.	-	-	-	-	-	-	-	9	-	3	-	1	-	-	1	-	-	14
D.H.A.*	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	10
D.D.P.H.*	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	10
Dr. Sc.*	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	9
M.P.H. & T.M.*	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	8
M. San. Sc.*	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	8
M.S.S.E.*	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Dip.Med.Rec.Sc.*	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	6
M.S. (Biost.)*	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4
M. Demog.*	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	4
C.P.H.*	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2
Dipl. Nutr.*	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
M. Phil.*	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
M.I.H.*	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
D.I.H.*	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
TOTAL	176	171	124	122	111	103	98	97	76	70	56	50	45	28	22	17	10	1376

* Indicates a degree or diploma awarded by only one School.

ANNEX XII -- Schools of Public Health -- 1967-68 -- Geographic Distribution of Graduates by Professional Category

	Physicians	Nurses	Administrators	Educators, Health Educators	Sanitarians	Dentists	Bacteriologists	Statisticians	Nutritionists	Engineers	Chemists	Biologists; Entomologists	Social Workers	Pharmacists	Veterinarians	Anthropologists; Psychologists; Sociologists	Physicists	Physical Therapists	Industrial Hygienists	Medical Record Librarians	Others*	Total
Alabama	1	1	-	-	-	-	2	-	1	-	-	-	-	-	-	-	3	-	-	-	-	8
Alaska	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Arizona	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Arkansas	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
California	29	18	27	26	11	3	5	7	10	4	3	5	1	2	2	5	1	2	3	-	5	169
Colorado	1	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Connecticut	8	4	6	1	-	-	1	1	-	-	-	-	1	-	-	1	1	-	-	-	2	26
Delaware	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Dist. of Col.	3	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	6
Florida	3	5	3	2	6	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	1	24
Georgia	1	-	1	4	2	1	2	1	-	-	-	1	1	1	1	-	-	2	-	-	-	18
Guam	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Hawaii	4	1	-	1	1	-	1	-	-	-	-	1	2	-	-	-	-	1	-	-	-	12
Idaho	-	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	5
Illinois	7	5	5	2	1	-	3	-	2	-	-	-	-	-	1	-	-	-	-	-	1	27
Indiana	-	4	3	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	10
Iowa	1	4	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	7
Kansas	2	1	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	6
Kentucky	1	2	3	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Louisiana	4	7	-	-	1	-	3	-	-	-	-	-	4	-	1	-	-	1	-	-	1	22
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Maryland	15	4	3	1	1	2	2	3	-	3	3	2	3	1	1	-	1	1	-	-	2	48
Mass.	10	2	5	1	1	4	3	2	6	1	3	2	1	-	-	-	-	-	1	-	-	42
Michigan	9	15	7	2	3	2	2	7	3	-	1	1	-	1	-	-	2	-	2	-	1	58
Minnesota	-	5	10	1	2	-	1	4	1	3	1	1	-	2	3	-	-	1	-	-	1	36
Mississippi	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Missouri	3	1	1	-	-	-	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	10
Nebraska	1	-	1	-	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	6
Nevada	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2
New Hampshire	2	1	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	5
New Jersey	8	4	4	-	1	1	-	-	-	1	-	1	1	3	-	-	1	-	-	-	1	26
New Mexico	1	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4
New York	26	15	15	4	2	6	-	6	2	5	4	3	3	4	1	1	3	3	-	-	4	107
No. Carolina	7	6	2	8	1	1	8	2	1	1	3	2	-	-	1	-	2	1	1	-	-	47
North Dakota	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	3

ANNEX XII -- (Cont'd.)

	Physicians	Nurses	Administrators	Educators, Health Educators	Sanitarians	Dentists	Bacteriologists	Statisticians	Nutritionists	Engineers	Chemists	Biologists; Entomologists	Social Workers	Pharmacists	Veterinarians	Anthropologists; Psychologists; Sociologists	Physicists	Physical Therapists	Industrial Hygienists	Medical Record Librarians	Others*	Total
Ohio	1	6	5	2	2	-	-	-	-	-	1	1	-	-	3	2	-	-	-	-	1	24
Oklahoma	4	-	-	1	1	-	-	2	1	-	-	-	1	1	-	2	-	-	-	-	-	13
Oregon	5	3	1	2	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	14
Pennsylvania	16	13	7	2	8	7	2	2	-	3	5	3	3	1	1	-	4	-	4	6	1	82
Puerto Rico	7	1	13	22	6	4	1	-	3	-	-	3	-	1	1	2	-	2	-	-	-	72
Rhode Island	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	3
So. Carolina	2	1	1	-	-	1	3	-	-	-	-	-	1	-	1	-	-	-	-	-	-	10
South Dakota	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Tennessee	1	-	2	1	3	-	1	1	-	-	2	-	-	1	-	1	-	-	-	-	-	13
Texas	10	2	1	3	1	1	-	-	2	-	-	-	-	-	1	-	-	1	1	-	-	23
Utah	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Vermont	-	-	-	-	-	-	-	-	2	-	-	-	1	-	1	-	-	-	-	-	-	4
Virginia	5	5	1	2	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Washington	4	2	2	-	1	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	13
West Virginia	2	1	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	6
Wisconsin	1	4	2	-	3	3	1	2	1	-	-	-	-	-	-	1	-	-	1	-	-	19
TOTAL-U.S.A.	211	150	136	92	63	43	50	48	40	27	29	28	28	21	19	15	19	16	13	7	22	1077
Alberta	1	1	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	7
Brit.Columbia	1	5	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	9
Manitoba	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2
New Brunswick	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Nova Scotia	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3
Ontario	11	5	4	2	-	4	7	-	2	-	-	-	-	-	1	-	-	-	-	-	-	36
Quebec	5	-	-	1	-	-	-	-	1	2	2	-	-	1	-	3	-	-	-	-	1	16
Saskatchewan	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
TOTAL-CANADA	23	12	6	4	-	9	7	-	3	3	2	-	-	3	2	3	-	1	-	1	1	80

ANNEX XII -- (Cont'd.)

	Physicians	Nurses	Administrators	Educators, Health Educators	Sanitarians	Dentists	Bacteriologists	Statisticians	Nutritionists	Engineers	Chemists	Biologists; Entomologists	Social Workers	Pharmacists	Veterinarians	Anthropologists; Psychologists; Sociologists	Physicists	Physical Therapists	Industrial Hygienists	Medical Record Librarians	Others*	Total
Argentina	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Australia	3	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	6
Austria	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Belgium	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Bolivia	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Brazil	1	1	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Burma	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ceylon	7	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	7
China	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Colombia	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Congo	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Denmark	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Dominican Rep.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ecuador	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ethiopia	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	3
Finland	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
France	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Germany	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Ghana	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Greece	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Guatemala	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Guiana	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Haiti	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Honduras	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Hong Kong	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
India	7	1	-	2	-	3	1	6	4	-	1	-	-	-	-	-	-	-	-	-	-	25
Indonesia	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Iran	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Ireland	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Israel	-	-	-	-	-	-	-	1	-	-	2	-	1	-	-	-	-	-	-	-	-	4
Jamaica	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Japan	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4
Korea	2	1	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	5
Kuwait	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Liberia	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Malaysia	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Mali	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

ANNEX XII -- (Cont'd.)

	Physicians	Nurses	Administrators	Educators, Health Educators	Sanitarians	Dentists	Bacteriologists	Statisticians	Nutritionists	Engineers	Chemists	Biologists; Entomologists	Social Workers	Pharmacists	Veterinarians	Anthropologists; Psychologists; Sociologists	Physicists	Physical Therapists	Industrial Hygienists	Medical Record Librarians	Others*	Total
Mauritius	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Mexico	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	3
Nepal	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Netherlands	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
New Zealand	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Nicaragua	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Niger	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Nigeria	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3
Norway	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Pakistan	6	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Paraguay	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Peru	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Philippines	7	1	-	-	-	-	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	13
Ruanda	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Saudi Arabia	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Singapore	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
South Africa	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Sudan	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Switzerland	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2
Syria	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Tanzania	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Thailand	11	-	-	-	3	-	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	20
Togo	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
U.A.R.	4	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	7
U.K.	1	1	3	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	9
Venezuela	-	-	-	1	-	-	-	-	-	5	-	-	-	-	-	1	-	-	-	-	-	7
Viet Nam	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
other country	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL-OTHER COUNTRIES	117	11	5	15	3	14	7	11	12	10	6	1	1	1	1	3	-	-	-	-	1	219
TOTAL-ALL COUNTRIES	351	173	147	111	66	66	64	59	55	40	37	29	29	25	22	21	19	17	13	8	24	1376

* Others includes: 4 clergymen; 4 dental hygienists; 4 not stated; 3 journalists; 2 accountants; 2 economists; 2 lawyers; 2 physiologists; 1 historian

ANNEX XIII -- Graduates of Schools of Public Health -- 1967-68
by Age and Sex and by Degree Granted

Sex and Age	M.P.H. D.P.H. etc.	M.S.P.H. M.S.Hyg. etc.	M.Hosp. Adm. etc.	Other Master's	Dr. P.H.	Sc.D. Sc.D.Hyg.	Ph.D.	Total
Male								
Under 25	23	15	15	2	-	-	-	55
25 - 29	121	59	28	11	1	2	7	229
30 - 34	175	27	17	5	6	6	12	248
35 - 39	133	18	13	1	7	8	6	186
40 - 44	70	2	8	-	6	2	5	93
45 - 49	37	3	4	-	3	-	2	49
50 - 54	19	-	1	-	2	-	-	22
55 and over	11	-	-	-	-	-	-	11
Total: Male	589	124	86	19	25	18	32	893
Female								
Under 25	17	14	-	7	-	-	-	38
25 - 29	80	28	5	22	-	-	1	136
30 - 34	76	8	3	5	-	-	4	96
35 - 39	54	8	3	6	2	1	1	75
40 - 44	36	7	4	1	-	-	-	48
45 - 49	25	3	3	3	2	3	1	40
50 - 54	30	1	1	3	-	1	-	36
55 and over	12	-	-	1	1	-	-	14
Total: Female	330	69	19	48	5	5	7	483
TOTAL: MALE & FEMALE	919	193	105	67	30	23	39	1376

ANNEX XIV -- Graduates from Schools of Public Health -- 1967-68
by Major Subject and Degree Granted

Major Subject	M.P.H. D.P.H. etc.	M.S.P.H. M.S.Hyg. etc.	M.Hosp. Adm. etc.	Other Master's	Dr. P.H.	Sc.D. Sc.D. Hyg.	Ph.D.	Total
Adm. or practice of P.H.	178	3	2	3	3	-	-	189
Aviation Med.	17	1	-	-	-	-	-	18
Behavioral and Social Sciences	3	2	-	-	-	-	1	6
Biostatistics	15	27	-	10	-	2	9	63
Chronic Diseases	10	-	-	1	1	-	1	13
Dental P.H.	44	-	-	-	-	-	-	44
Environmental H.	56	31	-	6	1	1	8	103
Epidemiology	69	6	-	3	7	3	3	91
Health Education	98	30	-	9	3	1	2	143
International Health	23	-	-	-	1	-	-	24
Maternal and Child Health	70	-	-	1	1	1	1	74
Medical Care and Hosp. Adm.	96	22	98	1	3	-	2	222
Mental Health	10	-	5	-	1	1	-	17
Microb. and Lab. P.H.	25	1	-	2	4	1	-	33
Nutr., Biochem.	37	19	-	10	2	3	5	76
Occupational H.	27	10	-	3	-	4	1	45
Physiol. Hyg.	7	2	-	-	-	1	1	11
Population Studies	16	8	-	1	1	-	-	26
P.H. Nursing	68	5	-	17	1	-	-	91
Radiological Sc.	8	18	-	-	-	2	4	32
Rehabilitation and Phys.Therapy	3	-	-	-	-	-	-	3
Social Work in P.H.	3	-	-	-	-	-	-	3
Tropical Med.; Entomol.;Parasit.	34	8	-	-	1	3	1	47
Other	2	-	-	-	-	-	-	2
TOTAL	919	193	105	67	30	23	39	1376

ANNEX XV -- Schools of Public Health -- 1967-68 Graduates by Professional Categories and Sponsorship

	Own Gov't or Own Employer	U.S. P.H.S.	A.I.D.	Other U.S. Gov't Agencies	W.H.O.	Fund or Foundation	self sponsored	other	Total
Physicians	78	117	11	21	36	24	41	23	351
Nurses	17	111	-	6	3	5	24	7	173
Administrators	15	69	-	2	1	1	51	8	147
Educators; Health Educ.	24	55	4	-	7	6	12	3	111
Sanitarians	19	36	3	-	-	1	5	2	66
Dentists	14	29	1	2	3	-	13	4	66
Bacteriologists; Lab. Scientists	1	38	1	1	-	2	18	3	64
Statisticians	3	33	2	1	1	5	12	2	59
Dietitians; Nutritionists	5	26	1	9	-	-	9	5	55
Engineers	11	13	1	3	3	1	8	-	40
Chemists; Biochemists	1	26	1	-	-	-	9	-	37
Biologists; Entomologists	-	19	1	2	-	1	6	-	29
Social Workers	4	11	-	7	-	1	4	2	29
Pharmacists	3	16	-	1	-	-	5	-	25
Veterinarians	4	11	-	3	-	-	3	1	22
Anthropologists Psychologists; Sociologists	1	12	-	-	1	2	5	-	21
Physicists	2	14	-	-	-	1	1	1	19
Physical Therapists	-	14	-	-	-	-	1	2	17
Industrial Hygienists	-	9	-	1	-	-	3	-	13
Medical Record Librarians	6	1	-	-	-	-	1	-	8
Others*	2	17	-	-	-	-	4	-	24
TOTAL	210	677	26	59	55	50	235	64	1376

* Others includes: 4 clergymen; 4 dental hygienists; 4 not stated; 3 journalists; 2 accountants; 2 economists; 2 lawyers; 2 physiologists; 1 historian

ANNEX XVI -- Schools of Public Health -- 1967-68 Graduates by Major Subject and Professional Category

	Physicians	Nurses	Administrators	Educators, Hlth. Educ.	Sanitarians	Dentists	Bacteriologists	Math.; Statisticians	Dietit.; Nutritionists	Engineers	Chemists; Biochemists	Biologists; Entomolog.	Social Workers	Pharmacists	Veterinarians	Anthro.; Psychologists; Sociologists	Physicists	Physical Therapists	Industrial Hygienists	Medical Record Librar.	Others*	Total
Adm. P. H.	90	20	21	3	9	16	2	-	2	1	-	-	5	6	2	4	-	7	-	-	1	189
Av. Med.	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
Beh. Sc.	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	-	-	-	6
Biostatistics	5	-	-	-	-	-	-	55	-	-	1	2	-	-	-	-	-	-	-	-	-	63
Chr. Dis.	3	1	-	-	1	-	1	-	-	-	-	2	-	-	-	2	-	-	-	-	3	13
Dent. P. H.	-	-	-	-	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	44
Env. Health	2	-	-	-	49	-	4	-	-	24	9	8	-	2	3	-	-	-	2	-	-	103
Epid.	60	1	-	-	1	4	7	-	-	-	-	2	2	-	9	-	-	-	1	-	4	91
H. Educ.	6	13	2	97	2	1	3	-	2	1	-	2	2	-	-	5	-	2	-	-	5	143
Internat'l. Health	15	6	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	24
M.C.H.	53	15	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	1	-	-	1	74
Med. Care & Hosp. Adm.	26	17	123	3	1	1	1	2	1	-	1	2	9	14	-	5	-	4	-	7	5	222
Mental H.	10	5	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	17
Microb. &Lab.P.H.	4	-	-	-	-	-	26	-	-	-	-	-	-	1	2	-	-	-	-	-	-	33
Nutrition; Biochem.	7	1	-	-	-	1	1	-	50	-	14	2	-	-	-	-	-	-	-	-	-	76
Occup. H.	11	1	-	-	2	-	1	-	-	7	7	2	-	1	-	-	2	-	9	1	1	45
Physiol. H.	3	-	-	1	-	-	-	-	-	2	-	1	-	1	-	-	-	3	-	-	-	11
Population Studies	13	1	1	4	-	-	1	1	-	-	-	2	-	-	-	2	-	-	-	-	1	26
P. H. Nurs.	-	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91
Rad. Sc.	-	-	-	-	-	1	1	-	-	5	5	2	-	-	-	-	17	-	1	-	-	32
Rehabilitation & Phys. Ther.	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	3
Social Work in P.H.	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	3
Tropical Med.	21	-	-	1	1	-	16	-	-	-	-	2	-	-	5	-	-	-	-	-	1	47
Other	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
TOTAL	351	173	147	111	66	66	64	59	55	40	37	29	29	25	22	21	19	17	13	8	24	1376

* Others includes: 4 clergymen; 4 dental hygienists; 4 not stated; 3 journalists; 2 accountants; 2 economists; 2 lawyers; 2 physiologists; 1 historian

ANNEX XVII--Schools of Public Health: 1967-68

Continuation Education Activities in Subject Areas

Subject	No. of Courses	No. of Participants	No. of Clock Hours	Total No. of Participant-Hours
Adm. & Practice, P.H.	38	2903	1541	68,945
Biostatistics	6	172	231	5,016
Dental Public Health	3	65	112	2,572
Environmental Health	6	512	210	11,652
Epidemiology	5	98	153	3,564
Health Education	1	34	21	408
Maternal & Child Health	1	45	13	562
Med. Care & Hosp. Adm.	33	1291	1831	51,177
Mental Health	6	239	146	5,584
Microbiology	2	102	260	12,480
Nutrition	6	341	116	6,857
Occupational Health	2	57	57	1,146
Personal Hygiene	5	358	147	10,812
Physiological Hygiene	2	28	30	420
Population Studies	3	223	181	6,240
Public Health Nursing	10	311	678	14,868
Rehabilitation	1	27	29	783
Social Work	4	320	67	5,712
Tropical Hygiene	1	9	35	315
Other	9	254	827	31,254
TOTAL	144	7389	6685	240,367

SCHOOLS OF PUBLIC HEALTH
ACCREDITED BY THE AMERICAN PUBLIC HEALTH ASSOCIATION

University of CALIFORNIA, School of Public Health
Earl Warren Hall, Berkeley, California 94720

University of CALIFORNIA at LOS ANGELES, School of Public Health
Los Angeles, California 90024

COLUMBIA University, School of Public Health and Administrative Medicine
600 West 168th Street, New York, New York 10032

HARVARD University, School of Public Health
55 Shattuck Street, Boston, Massachusetts 02115

University of HAWAII, School of Public Health
2540 Maile Way, Honolulu, Hawaii 96822

JOHNS HOPKINS University, School of Hygiene and Public Health
615 North Wolfe Street, Baltimore, Maryland 21205

LOMA LINDA University, School of Public Health
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